

What is claimed is:

1. A fan assembly, comprising:

a base portion having a fixed base;

5 a blower portion that includes an oscillating blower mount that is operably coupled to the fixed base, and a blower that is coupled to the blower mount and which oscillates when the blower mount oscillates; and

a degree swing setting assembly that includes:

10 a plurality of degree swing sensors that define the degree of oscillation to be experienced by the blower mount; and

a plurality of power sensors that are normally disengaged from corresponding degree swing sensors, but which engage corresponding degree swing sensors when the oscillation direction of the blower mount is to be reversed.

15 2. The assembly of claim 1, wherein the fixed base is stationary, and wherein the blower portion further includes a grill cover that is coupled to the fixed base in a manner such that the grill cover remains stationary even when the blower mount and the blower oscillate.

20 3. The assembly of claim 1, further including a smooth glide mechanism positioned between the blower mount and the fixed base.

4. The assembly of claim 3, wherein the smooth glide mechanism includes a plurality of bearings.

25 5. The assembly of claim 4, wherein the bearings are spaced apart along a retainer ring.

30 6. The assembly of claim 1, further including:
a blower mount oscillation gear fixedly secured to the blower mount; and
an oscillation motor having an oscillation motor gear that engages the blower mount oscillation gear.

7. The assembly of claim 1, further including a shaft that is coupled to the blower mount and the fixed base, and which defines an oscillation axis.

5 8. The assembly of claim 6, wherein the blower mount and the base define an accommodation space therebetween, with the oscillation motor and the blower mount oscillation gear housed inside the accommodation space.

9. The assembly of claim 1, wherein the degree swing setting assembly further includes:
10 a plurality of power supply contact rings, each power supply contact ring coupled to a corresponding degree swing sensor; and
a plurality of power supply contact switches, each contact switch coupled to a corresponding power supply contact ring.

15 10. The assembly of claim 1, wherein the degree swing sensors are carried by the blower mount to oscillate with the blower mount.

11. The assembly of claim 1, wherein the power sensors are fixedly secured to the fixed base.
20

12. The assembly of claim 9, wherein the degree swing sensors are carried by the blower mount to oscillate with the blower mount.

13. The assembly of claim 12, wherein the power sensors are fixedly secured to the fixed base.
25

14. The assembly of claim 9, wherein the plurality of power supply contact rings are carried by the blower mount to oscillate with the blower mount.

30 15. The assembly of claim 14, wherein the plurality of power supply contact switches are fixedly secured to the fixed base.

17. A fan assembly, comprising:
a base portion having a fixed non-oscillating base;
a blower portion that includes an oscillating blower mount that is operably
coupled to the base, and a blower that is coupled to the blower mount and which
5 oscillates when the blower mount oscillates;
a blower mount oscillation gear fixedly secured to the blower mount; and
an oscillation motor having an oscillation motor gear that engages the blower
mount oscillation gear.

10 18. The assembly of claim 17, wherein the blower mount and the base
define an accommodation space therebetween, with the oscillation motor and the
blower mount oscillation gear housed inside the accommodation space.

19. A fan assembly, comprising:
15 a base portion having a fixed base;
a blower portion that includes an oscillating blower mount that is operably
coupled to the fixed base, and a blower that is coupled to the blower mount and
which oscillates when the blower mount oscillates; and
a degree swing setting assembly that includes:
20 a plurality of first sensors carried by the oscillating blower mount, the
first sensors defining the degree of oscillation to be experienced by the blower mount;
and
a plurality of second sensors fixedly secured to the fixed base, the
second sensors being normally disengaged from corresponding first sensors, but
25 which engage corresponding first sensors when the oscillation direction of the blower
mount is to be reversed.

20. The assembly of claim 19, wherein the degree swing setting assembly
further includes:

30 a plurality of power supply contact rings, each power supply contact ring
coupled to a corresponding first sensor; and
a plurality of power supply contact switches, each contact switch coupled to a
corresponding power supply contact ring.